

FIGURE 1

FIGURE 2

SEQUENCE LISTING SEQ ID NO:1
ATTORNEY DOCKET NO. 015389-0040000US
INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 15418 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

GCGGCCGCGA GCTCTAATAC GACTCACTAT AGGGCGTCTGA CTC GATCAAT GGAAGATGAG 60
GCATTGCCGA AGAAAAGATT AATGGATTG AACACACAGC AACAGAAACT ACATGAAAGTG 120
AAACACAGGA AAAAAAAGAT AAAGAAACGA AAAGAAAAGG GCATCAGTGA GCTTCAGCAG 180
AAGTTCCATC GGCCTTACAT ATGTGTAAGC AGAGGCCCTG TAGGAGCAGA GGCAGGGGGA 240
AAATACTTTA AGAAATAATG TCTAAAAGTT TTTCAAATAT GAGGAAAAAC ATAAAACCCAC 300
AGATCCAAGA AGCTCAACAA AACAAAGCAC AAGAAACAGG AAGAAATTAA AAGTTATATC 360
ACAGTCAAAT TGCTGAAAC CAGCAACAAA GAGAAATATCT TAAGAGTATC AGAGGAAAAAG 420
AGATTAATGA CAGGĆCAAGA AACAAATGAAA ACAATACAGA TTTCTTGTAG GAAACACAAAG 480
ACAAAAGACA TTTTTTTAAA CCAAAGGAA AAAAAATGCT ACATTAAAAT GTTTTTTACC 540
CACTGAAAGT ATATTTCAA ACATATTTTA GGCCAGGCTT GGTGGCTCAC ACCTGTAATC 600
CCAGCACTTT GGGAGGCCAA GGTGGGTGGA TCGCTTAAGG TCAGGAGTTC GAGACCAGCC 660
TGGCCAAAT AGCGAAACCC CATCTGTACT AAAAACACAA AATTAGCTG GGTGTGGTGA 720
CACATGCCTG TAATCCAGG TACTCAGGAG GCTAAGGCAG GAGAAATTGCT TGAACCTGGA 780
GGCAGAGGTG GTGAGCCAAAG ATTGCACCAG TGCACCTCCAG CCTTGGTGAC AGAGTGAAAC 840

FIGURE 2
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TCCATCTCAA AAACAAACAA ACAAAATACA TATACATAAA TATATATGCA CATATATATA 900
CATATATAAA TATATATACA CATATATAAA TCTATATACA TATATACATA TATACACATA 960
TATAAATCTA TATACATATA TATACATATA TAATATATTT ACATATATAA ATATATACAT 1020
ATATAAATAT ACATATATAA ATACATATAT AAATATACAT ATATAAATAT ACATATATAA 1080
ATATACATAT ATAAATATAT ACATATATAA ATATACATAT ATAAATATAT ATACATATAT 1140
AAATATATAA ATATACAAGT ATATACAAAT ATATACATAT ATAAATGTAT ATACGTATAT 1200
ACATATATAT ATAAATATAT AAAAAAACCCT TTGGCTGGGC ACCTTTCCAA ATCTCATGGC 1260
ACATATAAGT CTCATGGTAA CCTCAAAATAA AAAACATAT AACAGATACA CCAAAAATAA 1320
AAACCAATAA ATTAATCAT GCCACCAGAA GAAATTACCT TCACTAAAG GAACACAGGA 1380
AGGAAAAGAA GAAGGAAGAG AAGACCATGA AACAAACCAGA AAACAACAA CAAACACGCA 1440
GGAGTAATTC CTGACTTATC AATAATAATG CTGGGTGTAA ATGGACTAAA CTCTCCAATC 1500
AAAAGACATA GAGTGGCTGA ATGGACGAAA AAAACAAGAC TCAATAATCT GTTGCCTACA 1560
AGAATATACT TCACCTATAA AGGGACACAT AGACTGAAA TAAAGGGAAG GAAAAATATT 1620
CTATGCAAAAT GGAAACCAA AAAAGAACAG AACTAGCTAC ACTTATATCA GACAAAAATAG 1680
ATTTCAAGAC AAAAAGTACA AAAGAGACA AAGTAATTAT ATAATAATA AGCAAAAAGA 1740
TATAACAATT GTGAATTTAT ATGGCCCCAA CACTGGGACA CCCAGATATA TACAGCAAAAT 1800
ATTATTAGAA CTAAGGAGAG AGAGAGATCC CCATACAATA ATAGCTGGAG ACTTCACCCC 1860
GCTTTTAGCA TTGGACAGAT CATCCAGACA GAAAATCAAC CAAAAAATTG GACTTAATCT 1920
ATAATATAGA ACAAATGTAC CTAATTGATG TTTACAAGAC ATTTCATCCA GTAGTTGCAG 1980

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AATATGCATT TTTTCCTCAG CATATGGATC ATTCTCAAGG ATAGACCATA TATTAGGCCA 2040
 CAGAACCAAGC CATTAATAAT TCATAAAAT TGAGCCAGGC ATGATGGCTT ATGCTTGTA 2100
 TTACAGCACT TTGGGGAGGG TGAGGTGGG GATGTCTTG AGTACAGGAG TTTGAGACCA 2160
 GCCTGGGCAA AATAGTGAGA CCCTGTCTCT ACAAACTTTT TTTTAAATT AGCCAGGCAT 2220
 AGTGGTGTGT GCCTGTAGTC CCAGCTACTT AGGAGGCTGA AGTGGGAGGA TCACCTTGAGC 2280
 CCAAGAGTTC AAGGCTACGG TGAGCCATGA TTGCAACACC ACACACCAGC CTTGGTGACA 2340
 GAATGAGACC CTGTCTCAAA AAAAAAATAA AAAATTGAAA TAATATAAAG CATCTTCTCT 2400
 GGCCACAGTG GAACAAACC AGAAATCAAC AACAGAGGA ATTTGAAA CTATACAAAC 2460
 ACATGAAAAA TAAACAATAT ACTTCTGAAT AACCAAGTG TCAATGAAGA AATTAAAAAG 2520
 GAAATTGAAA AATTATTATA AGCAATATGAT AACGGAAACA TAACCTCTCA AAACCCACGG 2580
 TATACAGCAA AAGCAGTGCT AAGAAGGAAG TTTATAGCTA TAAGCAGCTA CATCAAAAAA 2640
 GTAGAAAAAGC CAGGCGCAGT GGCTCATGCC TGTAATCCCA GCACCTTGGG AGGCCAAGGC 2700
 GGGCAGATCG CCTGAGGTCA GGAGTTCGAG ACCAGCCTGA CCAACACAGA GAAACCTTGT 2760
 CGCTACTAAA AATACAAAAT TAGCTGGGCA TGGTGGCACA TGCCTGTAAT CCCAGCTACT 2820
 CGGGAGGCTG AGGCAGGATA ACCGCTTGAA CCCAGGAGGT GGAGGTGCG GTGAGCCGGG 2880
 ATTGCGCCAT TGGACTCCAG CCTGGGTAAAC AAGAGTGAAA CCCTGTCTCA AGAAAAAAA 2940
 AAAAGTAGAA AAACCTAAAA ATACAACCTA ATGATGCACC TTAAAGAACT AGAAAAAGCAA 3000
 GAGCAAACTA AACCTAAAAT TGGTAAAAA AAAAGAAATA TAAAGATCAG AGCAGAAATA 3060
 AATGAAACTG AAAGATAACA ATACAAAAGA TCAACAAAAT TAAAGTTGG TTTTGTGAAA 3120

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AGATAAACAA AATTGACAAA CCTTTGCCCA GACTAAGAAA AAAGGAAAGA AGACCTAAAT 3180
AAATAAAGTC AGAGATGAAA AAAGAGACAT TACAACTGAT ACCACAGAAA TTCAAAGGAT 3240
CACTAGAGGC TACTATGAGC AACTGTACAC TAATAAATTG AAAAACCTAG AAAAATAGA 3300
TAAATTCCCTA GATGCATACA ACCTACCAAG ATTGAACCAT GAAGAAATCC AAAGCCCAA 3360
CAGACCAATA ACAATAATGG GATTAAAGCC ATAATAAAA GTCTCCTAGC AAAGAGAAAGC 3420
CCAGGACCCA ATGGCTTCCC TGCTGGATTT TACCAATCAT TTAAGAAGA ATGAATTCCA 3480
ATCCTACTCA AACTATTCTG AAAAATAGAG GAAAGAATAC TTCCAAACTC ATTCTACATG 3540
GCCAGTATTA CCCTGATTCC AAACCAGAC AAAACACAT CAAAACAAA CAAACAAAAA 3600
AACAGAAAGA AAGAAACTA CAGGCCAATA TCCCTGATGA ATACTGATAC AAAAATCCTC 3660
AACAAAACAC TAGCAAAACCA AATTAAACAA CACCTTCGAA AGATCATTTCA TTGTGATCAA 3720
GTGGGATTTA TTCCAGGGAT GGAAGGATGG TTCAACATAT GCAAATCAAT CAATGTGATA 3780
CATCATCCCA ACAAAATGAA GTACAAAAAC TATATGATTA TTTCACTTTA TGCAGAAAAA 3840
GCATTTGATA AAATTCTGCA CCTTTCATGA TAAAAACCCT CAAAAAACCA GGTATACAAG 3900
AAACATACAG GCCAGGCACA GTGGCTCACA CCTGCGATCC CAGCACTCTG GGAGGCCAAG 3960
GTGGGATGAT TGC TTGGGCC CAGGAGTTTG AGACTAGCCT GGGCAACAAA ATGAGACCTG 4020
GTCTACAAA AACCTTTTTTA AAAAATTAGC CAGGCATGAT GGCATATGCC TGTAGTCCCA 4080
GCTAGTCTGG AGGCTGAGGT GGGAGAATCA CTTAAGCCTA GGAGGTCGAG GCTGCAGTGA 4140
GCCATGAACA TGTCACCTGA CTCCAGCCTA GACAACAGAA CAAGACCCCA CTGAATAAGA 4200
AGAAGGAGAA GGAGAAAGGA GAAAGGAGG AGAAGGAGG AGGAGGAGAA GGAGGAGGTG 4260

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GAGGAGAAAGT GGAAGGGGAA GGGGAAGGGA AAGAGGAAGA AGAAGAAACA TATTTCAACA 4320
TAATAAAAGC CCTATATGAC AGACCGAGGT AGTATTATGA GGAAAAACTG AAAGCCTTTC 4380
CTCTAAGATC TGGAAAATGA CAAGGGCCCCA CTTTCACCAC TGTGATTCAA CATAGTACTA 4440
GAAGTCCTAG CTAGAGCAAT CAGATAAGAG AAAGAAATAA AAGGCATCCA AACTGGAAAG 4500
GAAGAAAGTCA AATTATCCTG TTTGCAGATG ATATGATCTT ATATCTGGAA AAGACTTAAG 4560
ACACCACTAA AAAACTATTA GAGCTGAAAT TTGGTACAGC AGGATACAAA ATCAATGTAC 4620
AAAAATCAGT AGTATTTCTA TATTCCAACA GCAAACAATC TGAAAAAGAA ACCAAAAAAG 4680
CAGCTACAAA TAAAAATTAA CAGCTAGGAA TTAACCAAAG AAGTGAAAGA TCTCTACAAT 4740
GAAAACTATA AAATATTGAT AAAAGAAATT GAAGAGGGCA CAAAAAAGA AAAGATATTC 4800
CATGTTTATA GATTGGAAGA ATAAATACTG TTAAATGTC CATACTACCC AAAGCAAATT 4860
ACAAATTCAA TGCAATCCCT ATTAAAAATAC TAATGACGTT CTTACACAGAA ATAGAAGAAA 4920
CAATTCTAAG ATTTGTACAG AACCACAAAA GACCCAGAAT AGCCAAAGCT ATCCTGACCA 4980
AAAAGAACAA AACTGGAAGC ATCACATTAC CTGACTTCAA ATTATACTAC AAAGCTATAG 5040
TAACCCAAAC TACATGGTAC TGGCATAAAA ACAGATGAGA CATGGACCAG AGGAACAGAA 5100
TAGAGAAATCC AGAAACAAAT CCATGCATCT ACAGTGAECT CATTTTGTGAC AAAGGTGCCA 5160
AGAACATACT TTGGGGAAAA GATAATCTCT TCAATAAATG GTGCTGGAGG AACTGGATAT 5220
CCATATGCAA AATAACAATA CTAGAACTCT GTCTCTCACC ATATACAAAA GCAAATCAAA 5280
ATGGATGAAA GGCTTAAATC TAAACCTCA AACTTTGCCA CTAATAAAG AAAACACCGG 5340
AGAAACTCTC CAGGACATTG GAGTGGGCAA AGACTTCTTG AGTAATTCCC TGCAGGCACA 5400

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GGCAACCAA GCAAAACAG ACAATGGGA TCATATCAAG TTAAAAAGCT TCTGCCCCAGC 5460
AAAGGAAACA ATCAACAAAG AGAAGAGACA ACCCACAGAA TGGGAGAATA TATTGCAAA 5520
CTATTTCATCT AACAGGAAT TAATAACCAG TATATATAAG GAGCTCAAAC TACTCTATAA 5580
GAAAAACACC TAATAAGCTG ATTTTCAAAA ATAAGCAAAA GATCTGGGTA GACATTTCCTC 5640
AAATAAGTC ATACAAATGG CAAACAGGCA TCTGAAAATG TGCTCAACAC CACTGATCAT 5700
CAGAGAAATG CAAATCAAAA CTACTATGAG AGATCATCTC ACCCCAGTTA AAATGGCTTT 5760
TATTCAAAAG ACAGGCAATA ACAAAATGCCA GTGAGGATGT GGATAAAAGG AAACCCCTTGG 5820
ACACTGTTGG TGGGAATGGA AATTGCTACC ACTATGGAGA ACAGTTTGAA AGTTCCTCAA 5880
AAACTAAAA ATAAAGCTAC CATAACAGCAA TCCCATTGCT AGGTATATAC TCCAAAAAAG 5940
GGAATCAGTG TATCAACAAG CTATCTCCAC TCCCACATTT ACTGCAGCAC TGTTTCATAGC 6000
AGCCAAAGTT TGGAAAGCAAC CTCAGTGTCC ATCAACAGAC GAATGGAAAA AGAAAATGTG 6060
GTGCACATAC ACAATGGAGT ACTACGCAGC CATAAAAAAG AATGAGATCC TGTCAGTTGC 6120
AACAGCATGG GGGGCACTGG TCAGTATGTT AAGTGAAATA AGCCAGGCAC AGAAAGACAA 6180
ACTTTTCATG TTCTCCCTTA CTTGTGGGAG CAAAAATTAA AACAAATTGAC ATAGAAATAG 6240
AGGAGAAATGG TGGTTCTAGA GGGGTGGGG ACAGGGTGAC TAGAGTCAAC AATAATTTAT 6300
TGTATGTTTT AAAATAACTA AAAGAGTATA ATTGGGTTGT TTGTAACACA AAGAAAGGAT 6360
AAATGCTTGA AGGTGACAGA TACCCCATTT ACCCTGATGT GATTATTACA CATTGTATGC 6420
CTGTATCAA ATATCTCATG TATGCTATAG ATATAAACCC TACTATATTA AAAATTAAAA 6480
TTTTAATGGC CAGGCACGGT GGCTCATGTC CATAATCCCA GCACTTTGGG AGGCCGAGGC 6540

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GGTGGATCAC CTGAGGTCAG GAGTTTGAAA CCAGTCTGGC CACCATGATG AAACCCCTGTC 6600
TCTACTAAAG ATACAAAAAT TAGCCAGGCG TGGTGGCACA TACCTGTAGT CCCAACTACT 6660
CAGGAGGCTG AGACAGGAGA ATTGCTTGAA CCTGGAGGC GGAGGTTGCA GTGAGCCGAG 6720
ATCATGCCAC TGCACTGCAG CCTGGGTGAC AGAGCAAAGAC TCCATCTCAA AACAAAAACA 6780
AAAAAAGAA GATTAAATTTTA TGTACCGTAT AAATATATAC TCTACTATAT 6840
TAGAAGTTAA AATTAAAC AATTATAAAA GGTAATTAAAC CACTTAATCT AAAATAAGAA 6900
CAATGTATGT GGGGTTTCTA GCTTCTGAAG AAGTAAAAAGT TATGGCCACG ATGGCAGAAA 6960
TGTGAGGAGG GAACAGTGGA AGTTACTGTT GTTAGACGCT CATACTCTCT GTAAAGTGACT 7020
TAATTTTAAC CAAAGACAGG CTGGGAGAAG TTAAAGAGGC ATTCTATAAG CCCTAAAAACA 7080
ACTGCTAATA ATGGTGAAAG GTAATCTCTA TTAATTACCA ATAATTACAG ATATCTCTAA 7140
AATCGAGCTG CAGAAATTGGC ACGTCTGATC ACACCGTCCT CTCATTTCACG GTGCTTTTIT 7200
TCTTGTGTGC TTGGAGATTT TCGATTGTGT GTTCGTGTTT GGTTAAACTT AATCTGTATG 7260
AATCCTGAAA CGAAAAATGG TGGTGATTTC CTCCAGAAAG ATTAGAGTAC CTGGCAGGAA 7320
GCAGGTGGCT CTGTGGACCT GAGCCACTTC AATCTTCAAG GGTCTCTGGC CAAGACCCAG 7380
GTGCAAGGCA GAGGCCCTGAT GACCCGAGGA CAGGAAAGCT CGGATGGGAA GGGGCGATGA 7440
GAAGCCTGCC TCGTTGGTGA GCAGCGCATG AAGTGCCCTT ATTTACGCTT TGCAAAAGATT 7500
GCTCTGGATA CCATCTGGAA AAGCGGGCCA GCGGGAATGC AAGGAGTCAG AAGCCTCCTG 7560
CTCAAAACCCA GGCCAGCAGC TATGGCGCCC ACCCGGGCGT GTGCCAGAGG GAGAGGAGTC 7620
AAGGCACCTC GAAGTATGGC TTAAATCTTT TTTTCACCTG AAGCAGTGAC CAAGGTGTAT 7680

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TCTGAGGGAA GCTTGAGTTA GGTGCCCTTCT TTAAACAGA AAGTCATGGA AGCACCCCTTC 7740
TCAAGGGAAA ACCAGACGCC CGCTCTGCGG TCATTTACCT CTTTCCTCTC TCCCTCTCTT 7800
GCCCTCGCGG TTTCTGATCG GGACAGAGTG ACCCCCGTGG AGCTTCTCCG AGCCCGTGCT 7860
GAGGACCCTC TTGCAAAGGG CTCACAGAC CCCC GCCCTG GAGAGAGGAG TCTGAGCCTG 7920
GCTTAATAAC AAACCTGGAT GTGGCTGGG GCGGACAGCG ACGCGGGAT TCAAAGACTT 7980
AATTCCATGA GTAAATTCAA CCTTCCACA TCCGAATGGA TTTGGATTTT ATCTTAATAT 8040
TTTCTTAAAT TTCATCAAAT AACATTCAGG AGTGCAGAAA TCCAAAGCG TAAACAGGA 8100
ACTGAGCTAT GTTTGCCAAG GTCCAAGGAC TTAATAACCA TGTTACAGAG GATTTTTCG 8160
CCTAAGTACT TTTTATTGGT TTTTCATAAGG TGGCTTAGGG TGCAAGGAA AGTACACGAG 8220
GAGAGGACTG GCGGGCAGGG CTATGAGCAC GGCAAGGCCA CCGGGGAGAG AGTCCCCGGC 8280
CTGGGAGGCT GACAGCAGGA CCACTGACCG TCCTCCCTGG GAGCTGCCAC ATTGGGCAAC 8340
GCGAAGGCGG CCACGCTGCG TGTGACTCAG GACCCCATAC CGGCTTCCCTG GGCCCAACCA 8400
CACTAACCCA GGAAAGTCACG GAGCTCTGAA CCCGTGGAAA CGAACATGAC CCTTGCCCTGC 8460
CTGCTTCCCT GGGTGGGTCA AGGGTAATGA AGTGGTGTGC AGGAAATGGC CATGTAAATT 8520
ACACGACTCT GCTGATGGGG ACCGTTCCCTT CCATCATTAT TCATCTTCAC CCCCAGGAC 8580
TGAATGATC CAGCAACTTC TTCGGGTGTG ACAAGCCATG ACAACACTCA GTACAAACAC 8640
CACTCTTTTA CTAGGCCAC AGAGCACGGC CCACACCCCT GATATATTA GAGTCCAGGA 8700
GAGATGAGGC TGCCTTCAGC CACGAGGCTG GGGTGACAAC AGCGGCTGAA CAGTCTGTC 8760
CTCTAGACTA GTAGACCCTG GCAGGCACTC CCCCAGATTG TAGGGCCTGG TTGCTGCTTC 8820

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CCGAGGGGCG CATCTGCCCT GGAGACTCAG CCTGGGGTGC CACACTGAGG CCAGCCCTGT 8880
CTCCACACCC TCCGCCCTCCA GGCCTCAGCT TCTCCAGCAG CTTCCTAAAC CCTGGGTGGG 8940
CCGTGTTCCA GCGCTACTGT CTCACCTGTC CCACTGTGTC TTGTCTCAGC GACGTAGCTC 9000
GCACGGTTCC TCCTCACATG GGGTGTCTGT CTCCTTCCCC AACACTCACA TGC GTTGAAG 9060
GGAGGAGATT CTGCGCCTCC CAGACTGGCT CCTCTGAGCC TGAACCTGGC TCGTGGCCCC 9120
CGATGCAGGT TCCTGGCGTC CGGCTGCACG CTGACCTCCA TTCCAGGCG CTCCTCCGTCT 9180
CCTGTCACT GCGGGGCGCT GCGGTGTGT TCTTCTGTT CTGTGCTCCT TTCCACGTCC 9240
AGCTGCGTGT GTCTCTGTCC GCTAGGGTCT CGGGGTTTT ATAGGCATAG GACGGGGGCG 9300
TGGTGGGCA GGGCGCTCTT GGGAAATGCA ACATTTGGGT GTGAAAGTAG GAGTGCCTGT 9360
CCTCACCTAG GTCCACGGGC ACAGGCCTGG GGATGAGCC CCGCCAGGG ACCCGCCCTT 9420
CTCTGCCCAG CACTTTTCTG CCCCCCTCCC TCTGGAACAC AGAGTGGCAG TTTCACAAG 9480
CACTAAGCAT CCTCTTCCCA AAAGACCCAG CATTGGCACC CCTGGACATT TGCCCCACAG 9540
CCCTGGGAAT TCACGTGACT ACGCACATCA TGTACACACT CCGTCCACG ACCGACCCCC 9600
GCTGTTTTAT TTTAATAGCT ACAAGCAGG GAAATCCCTG CTAAATGTC CTTTAAACAA 9660
CTGGTTAAAC AACGGGTCC ATCCGCACGG TGGACAGTTC CTCACAGTGA AGAGGAACAT 9720
GCCGTTTATA AAGCTGCAG GCATCTCAAG GGAATTACGC TGAGTCAAAA CTGCCACCTC 9780
CATGGGATAC GTACGCAACA TGCTCAAAA GAAAGAAATT CACCCCATGG CAGGGGAGTG 9840
GTTGGGGGGT TAAGGACGGT GGGGGCAGCA GCTGGGGGCT ACTGCACGCA CCTTTTACTA 9900
AAGCCAGTTT CCTGGTTCTG ATGGTATTGG CTCAGTTATG GGAGACTAAC CATAGGGGAG 9960

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TGGGGATGGG GGAACCCGGA GGCTGTGCCA TCTTTGCCAT GCCCGAGTGT CCTGGGCAGG 10020
ATAATGCTCT AGAGATGCCC ACGTCTTGAT TCCCCCAAAC CTGTGGACAG AACCCGCCCG 10080
GCCCCAGGC CTTTGCAGGT GTGATCTCCG TGAGGACCCT GAGGTCTGGG ATCCTTCGGG 10140
ACTACCTGCA GGCCCCGAAA GTAATCCAGG GGTTCCTGGA AGAGCGGGC AGGAGGGTCA 10200
GAGGGGGCA GCCTCAGGAC GATGGAGGCA GTCAGTCTGA GGCTGAAAAG GGAGGGAGGG 10260
CCTCGAGCCC AGGCCTGCAA GCGCCTCCAG AAGCTGGAAA AAGCGGGGAA GGGACCCCTCC 10320
ACGAGCCTG CAGCAGGAAG GCACGGCTGG CCCTTAGCCC ACCAGGGCCC ATCGTGGACC 10380
TCCGGCCTCC GTGCCATAG AGGGCACTCG CGCTGCCCTT CTAGCATGAA GTGTGTGGG 10440
ATTTGCAGAA GCAACAGGAA ACCCATGCAC TGTGAATCTA GGATTATTTC AAACAAGG 10500
TTTACAGAAA CATCCAAGGA CAGGGCTGAA GTGCCTCCGG GCAAGGGCAG GGCAGGCACG 10560
AGTGATTTTA TTTAGCTATT TTATTTTATT TACTTACTTT CTGAGACAGA GTTATGCTCT 10620
TGTTGCCCAG GCTGGAGTGC AGCGGCATGA TCTTGGCTCA CTGCAACCTC CGTCTCCTGG 10680
GTTCAAGCAA TTCTCGTGCC TCAGCCTCCC AAGTAGCTGG GATTTCAGGC GTGCACCACC 10740
ACACCCGGCT AATTTTGTA TTTTAGTAGA GATGGGCTTT CACCATGTTG GTCAGGCTGA 10800
TCTCAAAATC CTGACCTCAG GTGATCCGCC CACCTCAGCC TCCCAAAGTG CTGGGATTAC 10860
AGGCATGAGC CACTGCACCT GGCCTATTTA ACCATTTTAA AACTTCCCTG GGCTCAAGTC 10920
ACACCCACTG GTAAGGAGTT CATGGAGTTC AATTTCCTT TTAATCAGGA GTTACCCCTCC 10980
TTTGATATTT TCTGTAAATC TTCGTAGACT GGGGATACAC CGTCTCTTGA CATATTCACA 11040
GTTTCTGTGA CCACCTGTTA TCCCATGGA CCCACTGCAG GGGCAGCTGG GAGGCTGCAG 11100

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GCTTCAGGTC CCAGTGGGGT TGCCATCTGC CAGTAGAAAC CTGATGTAGA ATCAGGGCGC 11160
GAGTGTGGAC ACTGTCTCTGA ATCTCAATGT CTCAGTGTGT GCTGAAACAT GTAGAAATTA 11220
AAGTCCATCC CTCCTACTCT ACTGGGATTG AGCCCCCTTCC CTATCCCCCC CCAGGGGCAG 11280
AGGAGTTCCT CTCACCTCCTG TGGAGGAAGG AATGATACTT TGTATTTTT CACTGCTGGT 11340
ACTGAATCCA CTGTTTCATT TGTGGTTTG TTTGTTTGT TTTGAGAGGC GGTTCACCTC 11400
TTGTTGCTCA GGCTGGAGGG AGTGCAATGG CGCGATCTTG GCTTACTGCA GCCTCTGCCT 11460
CCCAGGTTCA AGTGATTCTC CTGCTTCCGC CTCCTATTG GCTGGGATTA CAGGCACCCG 11520
CCACCATGCC CAGCTAATTT TTTGTATTTT TAGTAGAGAC GGGGGTGGG GTGGGGTTCA 11580
CCATGTTGGC CAGGCTGGTC TCGAACTTCT GACCTCAGAT GATCCACCTG CCTCTGCCCTC 11640
CTAAAGTGCT GGGATTACAG GTGTGAGCCA CCATGCCCAG CTCAGAAATT ACTCTGTTTA 11700
GAAACATCTG GGTCGTGAGGT AGGAAGCTCA CCCCACTCAA GTGTTGTGGT GTTTTAAGCC 11760
AATGATAGAA TTTTITTTATT GTTGTTAGAA CACTCTTGAT GTTTTACACT GTGATGACTA 11820
AGACATCATC AGCTTTTCAA AGACACACTA ACTGCACCCA TAATACTGGG GTGTCTTCTG 11880
GGTATCAGCG ATCTTCATTG AATGCCGGGA GCGGTTTCTT CGCCATGCAC ATGGTGTTAA 11940
TTACTCCAGC ATAATCTTCT GCTTCCAATT CTCTCTTCC CTCTTTTAAA ATTGTGTTT 12000
CTATGTTGGC TTCTCTGCAG AGAACCACTG TAAGCTACAA CTTAACTTTT GTTGGAACAA 12060
ATTTTCCAAA CCGCCCCCTT GCCCTAGTGG CAGAGACAAAT TCACAAACAC AGCCCTTTAA 12120
AAAGGCTTAG GGATCACTAA GGGGATTTCT AGAAGAGCGA CCCGTAATCC TAAGTATTTA 12180
CAAGACGAGG CTAACCTCCA GCGAGCGTGA CAGCCCAGGG AGGGTGGCAG GCCTGTTCAA 12240

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ATGCTAGCTC CATAAATAAA GCAATTTCTCT CCGGCAGTTT CTGAAAGTAG GAAAGGTTAC 12300
ATTTAAGGTT GCGTTTGTTA GCATTTTCAGT GTTTGCCGAC CTCAGCTACA GCATCCCTGC 12360
AAGGCTCGG GAGACCCAGA AGTTTCTCGC CCTTAGATC CAAACTTGAG CAACCCGGAG 12420
TCTGGATTCC TGGAAAGTCC TCAGCTGTCC TCGGTTTG TCGGGGCCCC AGGTCTGGAG 12480
GGGACCAGTG GCCGTGTGGC TTCTACTGCT GGGCTGGAAG TCGGGCCTCC TAGCTCTGCA 12540
GTCCGAGGCT TGGAGCCAGG TGCCTGGACC CCGAGGCTGC CCTCCACCCT GTGCGGGCGG 12600
GATGTACCA GATGTTGGC TCATCTGCCA GACAGAGTGC CGGGGCCCCAG GGTC AAGGCC 12660
GTTGTGGCTG GTGTGAGCG CCCGGTGGC GGCCAGCAGG AGCGCCTGGC TCCATTTCCC 12720
ACCTTTTCTC GACGGGACCG CCCGGTGGG TGATTAACAG ATTTGGGGTG GTTTGCTCAT 12780
GGTGGGACC CCTCGCGGCC TGAGAACCTG CAAAGAGAAA TGACGGGCTT GTGTCAAGGA 12840
GCCCAAGTCG CGGGGAAGTG TTGCAGGGAG GCACTCCGGG AGGTCCCGCG TGCCCGTCCA 12900
GGAGCAATG CGTCCTCGGG TTCGTCCCCA GCCGCGTCTA CGCGCCTCCG TCCTCCCCCTT 12960
CACGTCCGGC ATTCGTGGTG CCCGGAGCCC GACGCCCCCG GTCCGGACCT GGAGGCAGCC 13020
CTGGGTCTCC GGATCAGGCC AGCGGCCAAA GGTGCGCCG ACGCACCTGT TCCCAGGGCC 13080
TCCACATCAT GGCCCTCTCC TCGGTTACC CCACAGCCTA GGCCGATTG ACCTCTCTCC 13140
GCTGGGCCC TCGCTGGCGT CCTGCACCC TGGAGCGCG AGCGGCGCG GGGCGGGGAA 13200
GCGCGGCCCA GACCCCGGG TCCGCCCGGA GCAGTGCGC TGTCGGGGCC AGCCCGGCT 13260
CCCAGTGGAT TCGCGGGCAC AGACGCCCA GACCGCGCTT CCCACGTGGC GGAGGGACTG 13320
GGGACCCGG CACCCGTCTT GCCCCTTCAC CTTCCAGCTC CGCCTCCTCC GCGCGGACCC 13380

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CGCCCCGTCC CGACCCCTCC CGGGTCCCCG GCCAGCCCC CTCCGGGCCC TCCCAGCCCC 13440
TCCCCTTCCT TTCCGGGGCC CCGCCCTCTC CTCGGGGCGC GAGTTTCAGG CAGCGCTGCG 13500
TCCTGCTGCG CACGTGGGAA GCCCTGGCCC CGGCCACCCC CGCGATGCCG CGCGCTCCCC 13560
GCTGCCGAGC CGTGCGCTCC CTGCTGCGCA GCCACTACCG CGAGGTGCTG CCGCTGGCCA 13620
CGTTGCTGCG GCGCCTGGG CCCCAGGGCT GCGGGCTGGT GCAGCGCGG GACCCGGCGG 13680
CTTTCCGCGC GCTGGTGGCC CAGTGCCCTGG TGTGCGTGCC CTGGGACGCA CGGCCGCCCC 13740
CCGCCGCCCC CTCCTTCCG CAGGTGGGCC TCCCCGGGGT CCGCGTCCGG CTGGGGTTGA 13800
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CGCGCGAAG AACGTGCTGG CCTTCGGCTT CGCGCTGCTG GACGGGGCCC GCGGGGGCCC 13980
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TGGGCAGGGG TCCTGGGGCC ACCCGGGCAG GACGCGTGA CCGAGTGACC GTGGTTTCTG 14460
TGTGTTGTCA CCTGCCAGC CCGCCGAAGA AGCCACCTCT TTGGAGGGTG CGCTCTCTG 14520

FIGURE 2
SEQUENCE LISTING SEQ ID NO:1
ATTORNEY DOCKET NO. 015389-0040000US
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CACGGCCAC TCCACCCAT CCGTGGGCGG CCAGCACAC GCGGGCCCC CATCCACATC 14580
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Promoter Reporter Construct

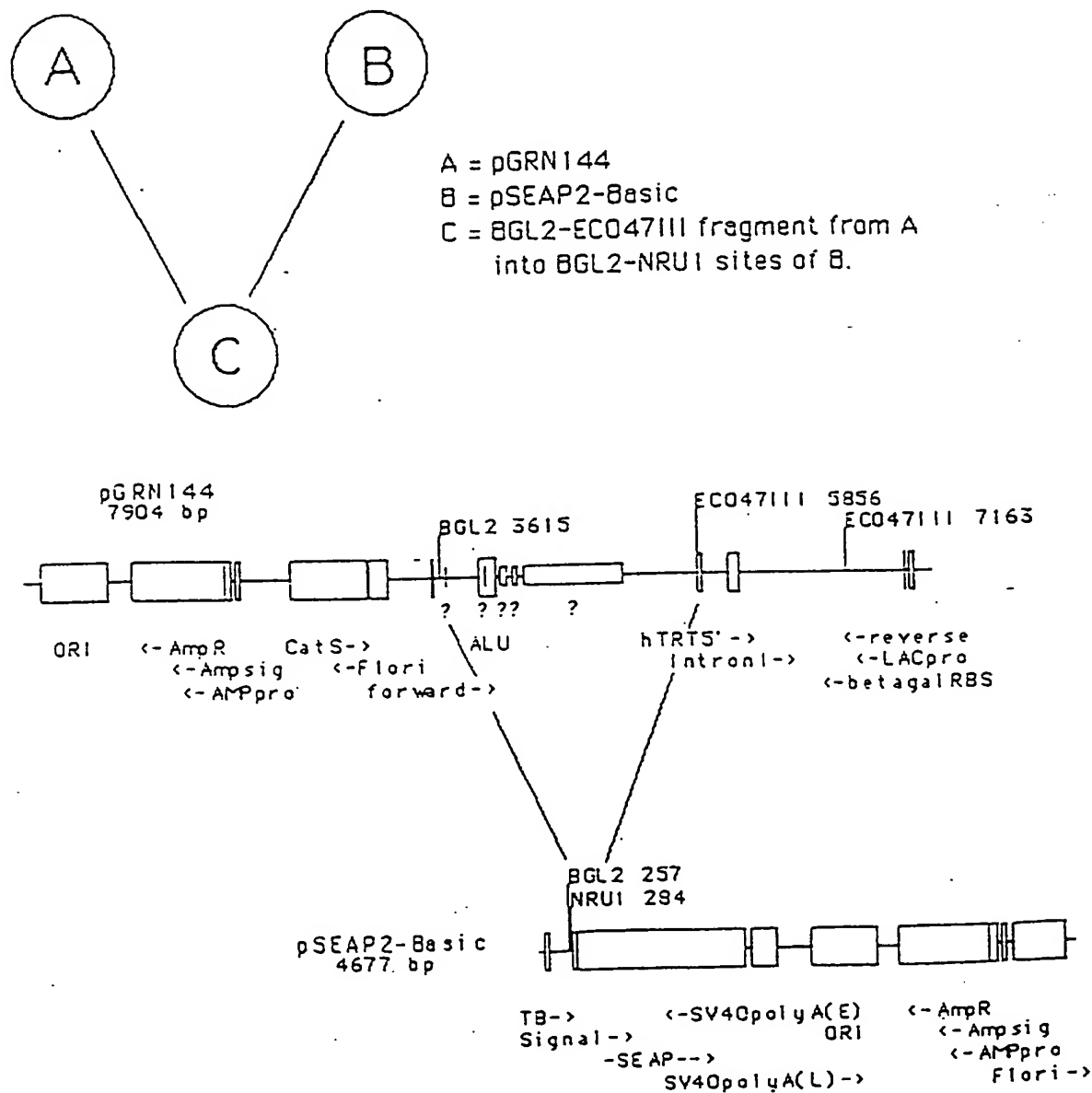


FIGURE 3

[illegible]

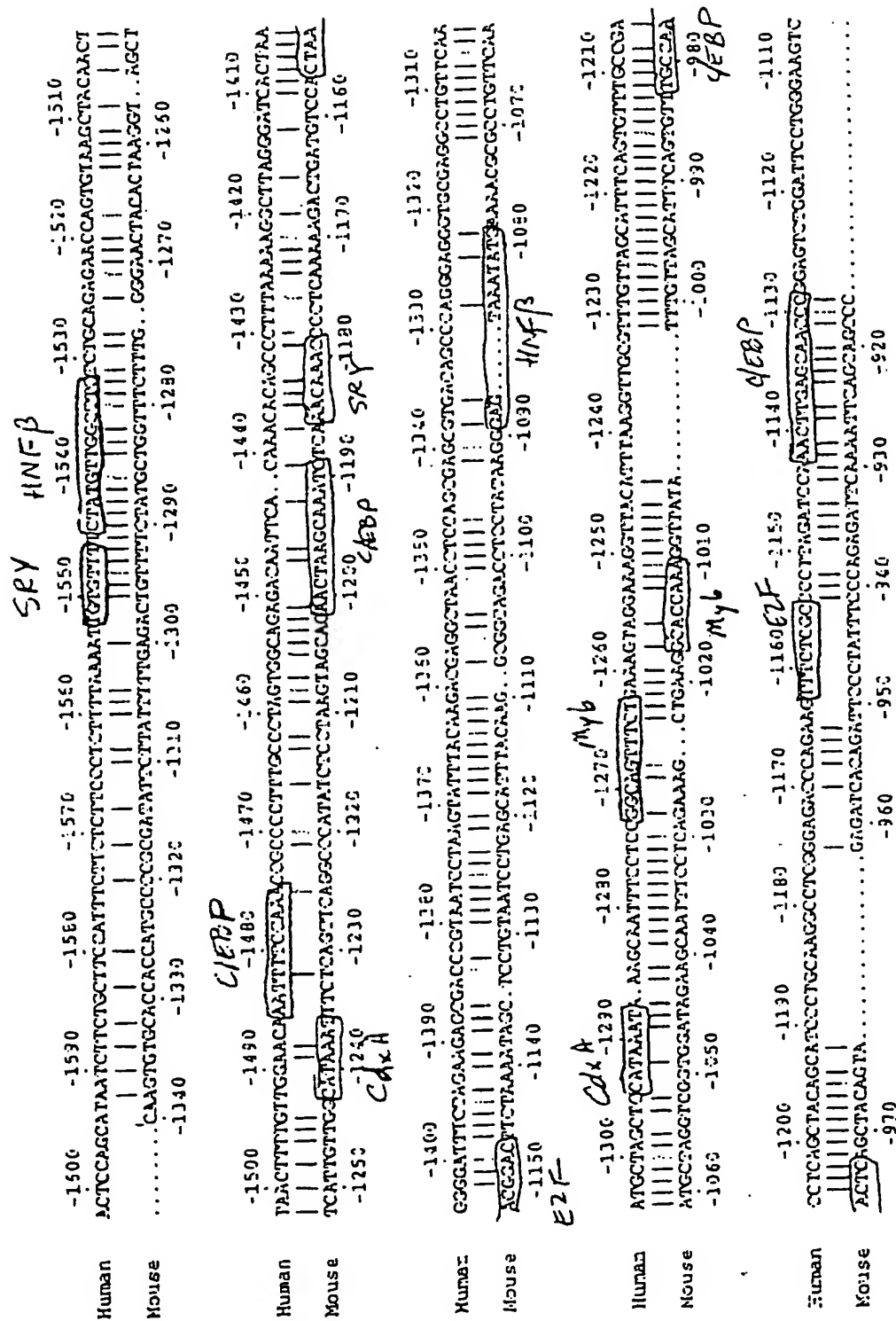


FIGURE 5

SEQUENCE LISTING SEQ ID NO:2

ATTORNEY DOCKET NO. 015389-004000US

INFORMATION FOR SEQ ID NO:2:

LOCUS B2.18 7498 bp DNA

DEFINITION Genomic sequence of the murine Telomerase reverse transcriptase gene promoter region.

GenBank ACCESSION NO: B2.18 AF121949

BASE COUNT 1944 a 1857 c 1815 g 1882 t

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121 ccagagaact ctgagggaaa ataaaacaca actccaggtc atcacgggac tcataaaact
181 gctgaggtgc agccacagag aaaaatctta aaatagccta gaacgatgca tgacacataa
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361 ttcaaaagt tcaacacaaa acagtagcag gagtggctaa gggggacaca ctgataggaa
421 ttcagagaag tagggaatgc tcatatgggg acattacaaa atgtacttc atgttgctta
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